

A. AMENDMENTS TO CLAIMS

Please amend the claims as indicated hereinafter.

1 1. (CURRENTLY AMENDED) A method for previewing an electronic document, the
2 method comprising:
3 generating the electronic document at a client;
4 transmitting document information associated with the electronic document from the
5 client to a printing ~~device~~; device having a print process for generating hard-copy
6 printouts of electronic documents at the printing device;
7 the printing device generating preview document data ~~at the printing device~~ based on the
8 document information and a set of one or more specific characteristics associated
9 with the printing device, wherein the set of one or more specific characteristics
10 are unavailable at the client;
11 the printing device transmitting the preview document data to the client; ~~client from the~~
12 ~~printing device~~; and
13 previewing the electronic document at the client based on the preview document data
14 received from the printing device.

1 2. (ORIGINAL) The method as recited in Claim 1, wherein:
2 the printing device is a multi-functional printer (MFP); and
3 the step of transmitting document information includes transmitting document
4 information to the MFP.

1 3. (ORIGINAL) The method as recited in Claim 1, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of transmitting document information includes transmitting PDL data from the
4 client to the printing device.

1 4. (ORIGINAL) The method as recited in Claim 1, wherein the step of generating preview
2 document data at the printing device includes generating raster image data at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.

1 5. (ORIGINAL) The method as recited in Claim 1, wherein the step of generating preview
2 document data at the printing device includes generating a bitmap image at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.

1 6. (ORIGINAL) The method as recited in Claim 1, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 7. (ORIGINAL) The method as recited in Claim 6, wherein the one or more different
2 paper characteristics includes one or more paper type characteristics, wherein the one or
3 more paper type characteristics indicate a specific type of paper that has been for printing
4 the electronic document.

1 8. (ORIGINAL) The method as recited in Claim 6, wherein the one or more different
2 paper characteristics includes one or more paper color characteristics, wherein the one or
3 more paper color characteristics indicate a specific color of paper that has been for
4 printing the electronic document.

1 9. (ORIGINAL) The method as recited in Claim 1, wherein

the printing device supports one or more different fonts that are available for printing electronic documents; and the set of one or more specific characteristics associated with the printing device includes one or more of the one or more different fonts that are available for printing electronic documents.

10. (ORIGINAL) The method as recited in Claim 1, wherein the printing device is associated with one or more different stapling characteristics that are available for selection; and the set of one or more specific characteristics associated with the printing device includes one or more of the one or more different stapling characteristics that are available for selection.

11. (ORIGINAL) The method as recited in Claim 1, wherein the printing device is associated with one or more different finishing characteristics that are available for selection; and the set of one or more specific characteristics associated with the printing device includes one or more of the one or more different finishing characteristics that are available for selection.

12. (ORIGINAL) The method as recited in Claim 1, wherein the client includes a print driver that is associated with the printing device; and the set of one or more specific characteristics that are unavailable at the client includes one or more characteristics that are unknown to the print driver.

13. (ORIGINAL) The method as recited in Claim 1, wherein the client includes a print driver that is associated with the printing device, wherein the print driver is associated with one or more print driver attributes that are not supported by the printing device; and

the step of generating preview document data at the printing device includes the step of translating one or more of the one or more print driver attributes into one or more printing device attributes that are supported by the printing device.

14. (ORIGINAL) The method as recited in Claim 1, wherein the step of generating preview document data at the printing device further includes the steps of:
determining the resolution of a display device that is associated with the client; and
generating the preview document data based on the resolution of the display device.

15. (ORIGINAL) The method as recited in Claim 1, wherein
the step of generating preview document data at the printing device
includes the steps of generating two-dimensional (2-D) preview document data; and
the step of displaying the preview version of the electronic document includes the step of
displaying portions of the electronic document at the client in 2-D.

16. (ORIGINAL) The method as recited in Claim 1, wherein
the step of generating preview document data at the printing device
includes the steps of generating three-dimensional (3-D) preview document data; and
the step of displaying the preview version of the electronic document includes the step of
displaying portions of the electronic document at the client in 3-D.

17. (ORIGINAL) The method as recited in Claim 1, wherein
the step of generating preview document data at the printing device includes the steps of
generating HyperText Markup Language (HTML) data at the printing device; and
the step of transmitting the preview document data to the client includes the step of
transmitting the HTML data to the client from the printing device.

18. (ORIGINAL) The method as recited in Claim 1, wherein

2 the step of generating preview document data at the printing device includes the steps of
3 generating Extensible Markup Language (XML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the XML data to the client from the printing device.

1 19. (CURRENTLY AMENDED) A method for previewing an electronic document, the
2 method comprising:
3 receiving from a client at a printing device document information associated with an
4 ~~electronic document;~~ document, wherein the printing device includes a print
5 process for generating hard-copy printouts of electronic documents at the printing
6 device;
7 the printing device generating preview document data ~~at the printing device~~ based on the
8 document information and a set of one or more specific characteristics associated
9 with the printing device; and
10 the printing device transmitting to the client the preview document data for causing a
11 display unit associated with the client to display a preview version of the
12 electronic document.

1 20. (ORIGINAL) The method as recited in Claim 19, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of receiving document information includes receiving PDL data at the printing
4 device.

1 21. (ORIGINAL) The method as recited in Claim 19, wherein the step of generating
2 preview document data at the printing device includes generating raster image data at the
3 printing device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.

1 22. (ORIGINAL) The method as recited in Claim 19, wherein

2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 23. (ORIGINAL) The method as recited in Claim 19, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 24. (ORIGINAL) The method as recited in Claim 19, wherein the step of generating
2 preview document data at the printing device further includes the steps of:
3 determining a display resolution of the display device that is associated with the client;
4 and
5 generating the preview document data based on the display resolution of the display
6 device.

1 25. (ORIGINAL) The method as recited in Claim 19, wherein
2 the step of generating preview document data at the printing device
3 includes generating three-dimensional (3-D) preview document data; and
4 the step of transmitting to the client the preview document data includes transmitting
5 preview document data that causes the preview version of the electronic
6 document to be displayed in 3-D on the display unit associated with the client.

1 26. (CURRENTLY AMENDED) A computer-readable medium carrying one or more
2 sequences of instructions for previewing an electronic document, wherein execution of

the one or more sequences of instructions by one or more processors causes the one or more processors to perform:
generating the electronic document at a client;
transmitting document information associated with the electronic document from the client to a printing device; device having a print process for generating hard-copy printouts of electronic documents at the printing device;
the printing device generating preview document data ~~at the printing device~~ based on the document information and a set of one or more specific characteristics associated with the printing device, wherein the set of one or more specific characteristics are unavailable at the client;
the printing device transmitting the preview document data to the client; ~~client from the printing device~~; and
previewing ~~displaying a preview version of~~ the electronic document at the client based on the preview document data ~~that is~~ received from the printing device.

27. (CURRENTLY AMENDED) A system for previewing an electronic document, comprising:
one or more processors;
one or more memories coupled to the one or more processors; and
one or more sequences of instructions stored in the one or more memories, wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform the steps of:
receiving from a client at a printing ~~device~~ device, having a print process for generating hard-copy printouts of electronic documents at the printing device, document information associated with ~~said~~ the electronic document;

12 the printing device generating preview document data at ~~the printing device~~-based
13 on the document information and a set of one or more specific
14 characteristics associated with the printing device, wherein the set of one
15 or more specific characteristics are unavailable at the client;
16 the printing device transmitting the preview document data to the client ~~from the~~
17 ~~printing device~~ for displaying a preview version of the electronic
18 document at ~~said~~ the client.

1 28. (CURRENTLY AMENDED) A document preview apparatus comprising:
2 a memory for storing characteristics that are associated with the document preview
3 apparatus, wherein the characteristics are unavailable to clients that are connected
4 to the document preview apparatus; ~~and~~
5 a print process for generating hard-copy printouts of electronic documents at the
6 document preview apparatus; and
7 one or more processors that are configured for
8 receiving, from a client, ~~receiving from the client~~ document information
9 associated with an electronic document;
10 generating, at the document preview apparatus, ~~generating~~ preview document data
11 based on the document information and one or more of the characteristics
12 associated with the document preview apparatus; and
13 transmitting to the client the preview document data for causing a display unit
14 associated with the client to display a preview version of the electronic
15 document.

1 29. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26,
2 wherein:
3 the printing device is a multi-functional printer (MFP); and

4 the step of transmitting document information includes transmitting document
5 information to the MFP.

1 30. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26,
2 wherein:
3 the document information is Page Description Language (PDL) data; and
4 the step of transmitting document information includes transmitting PDL data from the
5 client to the printing device.

1 31. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in claim 26,
2 wherein the step of generating preview document data at the printing device includes
3 generating raster image data at the printing device based upon the document information
4 and the set of one or more specific characteristics associated with the printing device.

1 32. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in claim 26,
2 wherein the step of generating preview document data at the printing device includes
3 generating a bitmap image at the printing device based upon the document information
4 and the set of one or more specific characteristics associated with the printing device.

1 33. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26,
2 wherein
3 the printing device is associated with one or more different paper characteristics that are
4 available for printing electronic documents; and
5 the set of one or more specific characteristics associated with the printing device includes
6 one or more of the one or more different paper characteristics that are available
7 for printing electronic documents.

1 34. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 33,
2 wherein the one or more different paper characteristics includes one or more paper type

characteristics, wherein the one or more paper type characteristics indicate a specific type of paper that has been for printing the electronic document.

35. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 33, wherein the one or more different paper characteristics includes one or more paper color characteristics, wherein the one or more paper color characteristics indicate a specific color of paper that has been for printing the electronic document.

36. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26, wherein the printing device supports one or more different fonts that are available for printing electronic documents; and the set of one or more specific characteristics associated with the printing device includes one or more of the one or more different fonts that are available for printing electronic documents.

37. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26, wherein the printing device is associated with one or more different stapling characteristics that are available for selection; and the set of one or more specific characteristics associated with the printing device includes one or more of the one or more different stapling characteristics that are available for selection.

38. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26, wherein the printing device is associated with one or more different finishing characteristics that are available for selection; and

5 the set of one or more specific characteristics associated with the printing device includes
6 one or more of the one or more different finishing characteristics that are
7 available for selection.

1 39. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26,
2 wherein
3 the client includes a print driver that is associated with the printing device; and
4 the set of one or more specific characteristics that are unavailable at the client includes
5 one or more characteristics that are unknown to the print driver.

1 40. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26,
2 wherein
3 the client includes a print driver that is associated with the printing device, wherein the
4 print driver is associated with one or more print driver attributes that are not
5 supported by the printing device; and
6 the step of generating preview document data at the printing device includes the step of
7 translating one or more of the one or more print driver attributes into one or more
8 printing device attributes that are supported by the printing device.

1 41. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26,
2 wherein the step of generating preview document data at the printing device further
3 includes the steps of:
4 determining the resolution of a display device that is associated with the client; and
5 generating the preview document data based on the resolution of the display device.

1 42. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26,
2 wherein
3 the step of generating preview document data at the printing device
4 includes the steps of generating two-dimensional (2-D) preview document data; and

the step of displaying the preview version of the electronic document includes the step of displaying portions of the electronic document at the client in 2-D.

43. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26, wherein the step of generating preview document data at the printing device includes the steps of generating three-dimensional (3-D) preview document data; and the step of displaying the preview version of the electronic document includes the step of displaying portions of the electronic document at the client in 3-D.

44. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26, wherein the step of generating preview document data at the printing device includes the steps of generating HyperText Markup Language (HTML) data at the printing device; and the step of transmitting the preview document data to the client includes the step of transmitting the HTML data to the client from the printing device.

45. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 26, wherein the step of generating preview document data at the printing device includes the steps of generating Extensible Markup Language (XML) data at the printing device; and the step of transmitting the preview document data to the client includes the step of transmitting the XML data to the client from the printing device.

46. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein: the printing device is a multi-functional printer (MFP); and the step of transmitting document information includes transmitting document information to the MFP.

1 47. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of transmitting document information includes transmitting PDL data from the
4 client to the printing device.

1 48. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein the step of
2 generating preview document data at the printing device includes generating raster image
3 data at the printing device based upon the document information and the set of one or
4 more specific characteristics associated with the printing device.

1 49. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein the step of
2 generating preview document data at the printing device includes generating a bitmap
3 image at the printing device based upon the document information and the set of one or
4 more specific characteristics associated with the printing device.

1 50. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 51. (PREVIOUSLY PRESENTED) The system as recited in Claim 50, wherein the one or
2 more different paper characteristics includes one or more paper type characteristics,
3 wherein the one or more paper type characteristics indicate a specific type of paper that
4 has been for printing the electronic document.

1 52. (PREVIOUSLY PRESENTED) The system as recited in Claim 50, wherein the one or
2 more different paper characteristics includes one or more paper color characteristics,

3 wherein the one or more paper color characteristics indicate a specific color of paper that
4 has been for printing the electronic document.

1 53. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein
2 the printing device supports one or more different fonts that are available for printing
3 electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different fonts that are available for printing
6 electronic documents.

1 54. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein
2 the printing device is associated with one or more different stapling characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different stapling characteristics that are available
6 for selection.

1 55. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 56. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein
2 the client includes a print driver that is associated with the printing device; and
3 the set of one or more specific characteristics that are unavailable at the client includes
4 one or more characteristics that are unknown to the print driver.

1 57. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein
2 the client includes a print driver that is associated with the printing device, wherein the
3 print driver is associated with one or more print driver attributes that are not
4 supported by the printing device; and
5 the step of generating preview document data at the printing device includes the step of
6 translating one or more of the one or more print driver attributes into one or more
7 printing device attributes that are supported by the printing device.

1 58. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein the step of
2 generating preview document data at the printing device further includes the steps of:
3 determining the resolution of a display device that is associated with the client; and
4 generating the preview document data based on the resolution of the display device.

1 59. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating two-dimensional (2-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 2-D.

1 60. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating three-dimensional (3-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 3-D.

1 61. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating HyperText Markup Language (HTML) data at the printing device; and

4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the HTML data to the client from the printing device.

1 62. (PREVIOUSLY PRESENTED) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating Extensible Markup Language (XML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the XML data to the client from the printing device.

1 63. (PREVIOUSLY PRESENTED) A computer-readable medium for previewing an
2 electronic document, the computer-readable medium carrying one or more sequences of
3 instructions which, when executed by one or more processors, cause the performance of:
4 receiving from a client at a printing device document information associated with an
5 electronic document;
6 generating preview document data at the printing device based on the document
7 information and a set of one or more specific characteristics associated with the
8 printing device; and
9 transmitting to the client the preview document data for causing a display unit associated
10 with the client to display a preview version of the electronic document.

1 64. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 63,
2 wherein:
3 the document information is Page Description Language (PDL) data; and
4 the step of receiving document information includes receiving PDL data at the printing
5 device.

1 65. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in claim 63,
2 wherein the step of generating preview document data at the printing device includes

generating raster image data at the printing device based upon the document information and the set of one or more specific characteristics associated with the printing device.

66. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 63, wherein the printing device is associated with one or more different paper characteristics that are available for printing electronic documents; and the set of one or more specific characteristics associated with the printing device includes one or more of the one or more different paper characteristics that are available for printing electronic documents.

67. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 63, wherein the printing device is associated with one or more different finishing characteristics that are available for selection; and the set of one or more specific characteristics associated with the printing device includes one or more of the one or more different finishing characteristics that are available for selection.

68. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 63, wherein the step of generating preview document data at the printing device further includes the steps of: determining a display resolution of the display device that is associated with the client; and generating the preview document data based on the display resolution of the display device.

69. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 63, wherein

3 the step of generating preview document data at the printing device includes generating
4 three-dimensional (3-D) preview document data; and
5 the step of transmitting to the client the preview document data includes transmitting
6 preview document data that causes the preview version of the electronic
7 document to be displayed in 3-D on the display unit associated with the client.

1 70. (PREVIOUSLY PRESENTED) An apparatus for previewing an electronic document,
2 the apparatus comprising a memory storing instructions which, when executed by one or
3 more processors, cause the performance of:
4 receiving from a client at a printing device document information associated with an
5 electronic document;
6 generating preview document data at the printing device based on the document
7 information and a set of one or more specific characteristics associated with the
8 printing device; and
9 transmitting to the client the preview document data for causing a display unit associated
10 with the client to display a preview version of the electronic document.

1 71. (PREVIOUSLY PRESENTED) The apparatus as recited in Claim 70, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of receiving document information includes receiving PDL data at the printing
4 device.

1 72. (PREVIOUSLY PRESENTED) The apparatus as recited in claim 70, wherein the step
2 of generating preview document data at the printing device includes generating raster
3 image data at the printing device based upon the document information and the set of one
4 or more specific characteristics associated with the printing device.

1 73. (PREVIOUSLY PRESENTED) The apparatus as recited in Claim 70, wherein

2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 74. (PREVIOUSLY PRESENTED) The apparatus as recited in Claim 70, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 75. (PREVIOUSLY PRESENTED) The apparatus as recited in Claim 70, wherein the step
2 of generating preview document data at the printing device further includes the steps of:
3 determining a display resolution of the display device that is associated with the client;
4 and
5 generating the preview document data based on the display resolution of the display
6 device.

1 76. (PREVIOUSLY PRESENTED) The apparatus as recited in Claim 70, wherein
2 the step of generating preview document data at the printing device includes generating
3 three-dimensional (3-D) preview document data; and
4 the step of transmitting to the client the preview document data includes transmitting
5 preview document data that causes the preview version of the electronic
6 document to be displayed in 3-D on the display unit associated with the client.